Performance Data Sheet

AEA2413AXA

General Information

Model	AEA2413AXA	**Refrigerant**	R-12
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	597	555	491	404	297	170	22.4
	Watts	256	256	249	236	215	187	152
	Amps	4.38	4.37	4.35	4.32	4.27	4.20	4.10
	Lb/h	10.5	9.33	8.00	6.48	4.70	2.63	0.19
-35	Btu/h	723	687	629	551	453	337	201
	Watts	273	275	272	263	247	225	195
	Amps	4.41	4.41	4.40	4.38	4.34	4.28	4.20
	Lb/h	12.5	11.4	10.2	8.83	7.23	5.34	3.11
-30	Btu/h	859	827	776	706	617	510	386
	Watts	290	294	294	288	277	260	236
	Amps	4.46	4.46	4.46	4.44	4.41	4.37	4.30
	Lb/h	14.6	13.6	12.6	11.3	9.86	8.15	6.10
-25	Btu/h	1010	979	933	870	789	692	578
	Watts	307	313	315	313	305	293	275
	Amps	4.51	4.52	4.52	4.51	4.50	4.46	4.41
	Lb/h	16.9	16.0	15.1	13.9	12.6	11.1	9.21
-20	Btu/h	1170	1140	1100	1040	971	882	779
	Watts	324	332	336	337	333	325	312
	Amps	4.57	4.58	4.59	4.59	4.59	4.57	4.53
	Lb/h	19.5	18.7	17.8	16.8	15.6	14.2	12.4
-15	Btu/h	1340	1320	1280	1230	1160	1080	990
	Watts	342	351	357	360	360	355	347
	Amps	4.64	4.65	4.67	4.68	4.69	4.68	4.65
	Lb/h	22.3	21.5	20.7	19.8	18.7	17.4	15.8
-10	Btu/h	1530	1510	1480	1430	1370	1300	1210
	Watts	361	370	378	383	386	385	381
	Amps	4.71	4.74	4.76	4.78	4.80	4.80	4.79
	Lb/h	25.4	24.6	23.9	23.0	22.0	20.9	19.4
-5	Btu/h	1740	1720	1690	1650	1590	1520	1450
	Watts	381	391	399	406	412	414	414
	Amps	4.80	4.83	4.86	4.89	4.92	4.93	4.94
	Lb/h	28.8	28.0	27.3	26.5	25.6	24.5	23.2

0	Btu/h	1960	1950	1920	1880	1830	1770	1700
	Watts	402	412	422	430	438	443	446
	Amps	4.90	4.93	4.97	5.01	5.05	5.08	5.10
	Lb/h	32.5	31.8	31.1	30.3	29.5	28.5	27.3
5	Btu/h	2210	2190	2160	2130	2080	2030	1960
	Watts	426	436	445	455	464	472	478
	Amps	5.01	5.05	5.10	5.14	5.19	5.23	5.27
	Lb/h	36.5	35.8	35.1	34.4	33.6	32.7	31.6
10	Btu/h	2470	2460	2430	2400	2350	2300	2250
	Watts	452	461	470	481	491	501	510
	Amps	5.14	5.18	5.23	5.29	5.35	5.40	5.45
	Lb/h	41.0	40.2	39.5	38.8	38.1	37.2	36.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.583984E+03	3.541786E+02	5.278386E+00	4.513838E+01
C2	5.572684E+01	9.893916E+00	2.683981E-02	9.109036E-01
C3	1.122372E+01	-2.488505E-01	-1.623428E-02	-3.027348E-01
C4	5.075458E-01	9.776165E-02	2.465798E-04	9.494031E-03
C5	-2.132694E-01	-1.237290E-01	-2.232432E-04	-3.177657E-03
C6	-9.006116E-02	1.621218E-02	1.939745E-04	2.541673E-03
C7	1.901688E-03	4.093891E-04	1.162023E-06	3.512246E-05
C8	-1.371923E-03	-7.467187E-04	2.386127E-08	-2.999381E-05
C9	1.305022E-03	7.072170E-04	1.908953E-06	1.869298E-05
C10	1.119140E-04	-6.958223E-05	-6.231948E-07	-9.224597E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature